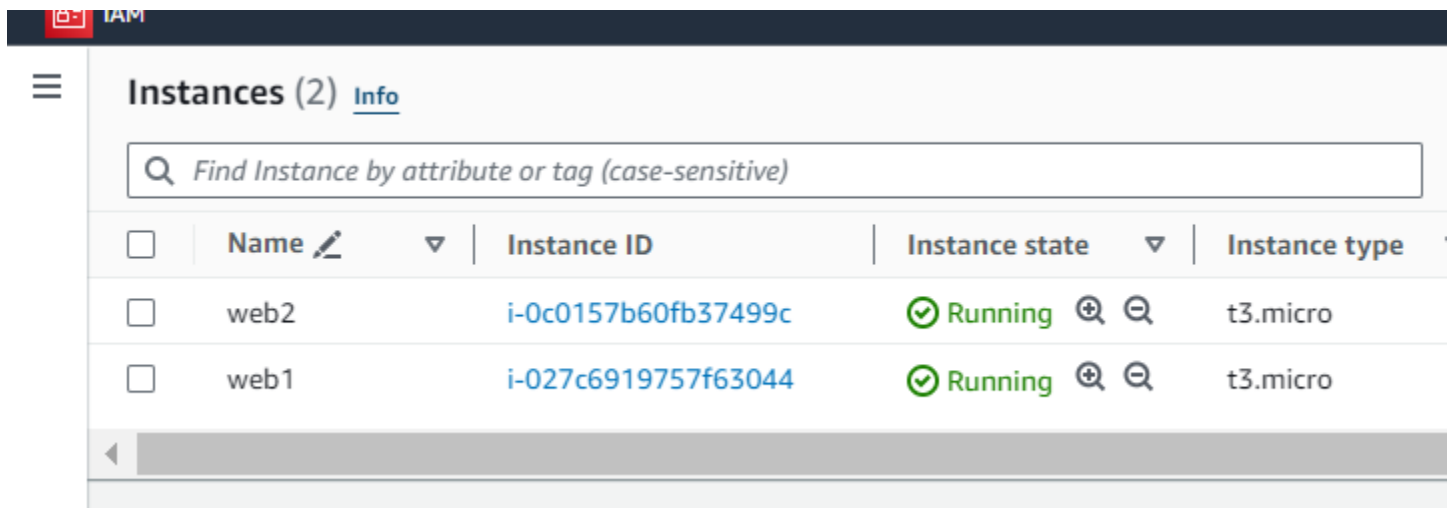


1)ATTACH THE VOLUME TO TWO DIFFERENT INSTANCES.

Step I : create two different instances of type t3 small it supports the multi-attach.

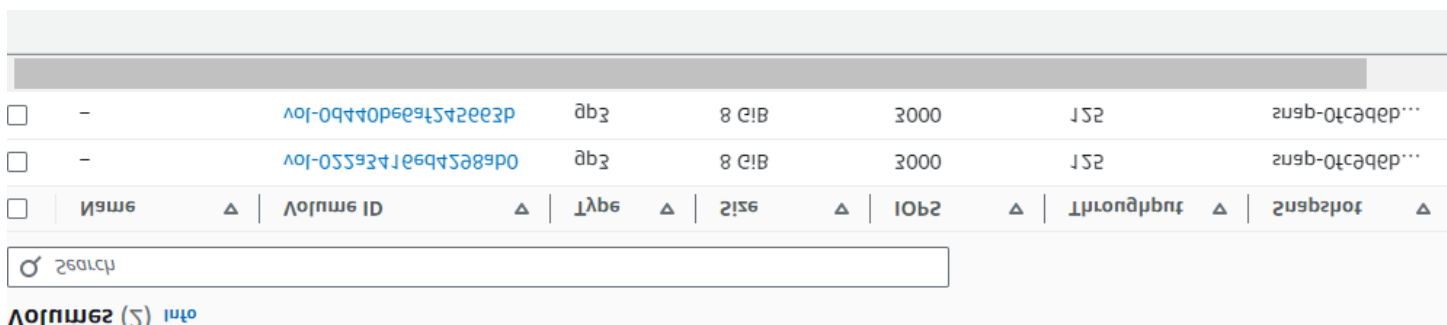


The screenshot shows the AWS Management Console 'Instances' page. There are two instances listed: 'web2' and 'web1', both in a 'Running' state and of type 't3.micro'. The search bar at the top says 'Find Instance by attribute or tag (case-sensitive)'.

	Name	Instance ID	Instance state	Instance type
<input type="checkbox"/>	web2	i-0c0157b60fb37499c	Running	t3.micro
<input type="checkbox"/>	web1	i-027c6919757f63044	Running	t3.micro

Step II : create volume to attach to the instances.

Step III : click on Volume,then click on create volume.



The screenshot shows the AWS Management Console 'Volumes' page. There are two volumes listed, both of type 'io2' and size '8 GiB'. The search bar at the top says 'Search'.

	Name	Volume ID	Type	Size	IOPS	Throughput	Subnet
<input type="checkbox"/>	-	vol-00d4d0b6e6f542e03p	io2	8 GiB	3000	152	subnet-0fcd9deb...
<input type="checkbox"/>	-	vol-055a341e69d45e89a0	io2	8 GiB	3000	152	subnet-0fcd9deb...

Step IV : Choose the Volume type as io2,give it size and select the availability zone where your instance is running .

Step V : Enable the multi Attach.

Step VI : Click on create volume.

Create volume [info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

Volume settings

Volume type: [info](#)
Provisioned IOPS SSD (io2) ▼

Size (GiB): [info](#)
20
Min: 1 GiB, Max: 16383 GiB. The value must be an integer.

IOPS: [info](#)
3000
Min: 100 IOPS, Max: 20000 IOPS (up to 1000 IOPS per GiB)

Throughput (MiB/s): [info](#)
Not applicable

Availability Zone: [info](#)
us-east-1a ▼

Snapshot ID: [info](#)
Don't create volume from a snapshot ▼ [info](#)

Amazon EBS Multi-attach: [info](#)
☒ Enable Multi-attach

[To enable Multi-attach for Windows Server Failover Cluster \(WSFC\) please install the latest MPIO driver and configure IO2 persistent reservations according to the \[documentation\]\(#\).](#)

Encryption: [info](#)
☐ Encrypt this volume
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 resources.

Tags: [optional](#) [info](#)
A tag is a piece of data that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resources.

[Add tag](#)
You can add 50 more tags.

Snapshot summary [info](#) [info](#)

[Click refresh to view backup information](#)
The volume type that you select and the tags that you assign determine whether the volume will be backed up by any Data Lifecycle Manager policies.

[Cancel](#) [Create volume](#)

Step VII : then select the Volume and click Actions and then Attach Volume.

Successfully created volume [vol-04a79c1aabc36b6cd](#).

Volumes (3) [Info](#)

<input type="checkbox"/>	Name ▼	Volume ID ▼	Type ▼	Size ▼	IOPS ▼	Throughput ▼	Snapshot ▼	Created ▼	Availability Zone ▼
<input type="checkbox"/>	-	vol-022a3416ed4298ab0	gp3	8 GiB	3000	125	snap-0fc9d6b...	2024/03/02 14:59 GMT+5:...	us-east-1a
<input type="checkbox"/>	-	vol-0d440be6af245663b	gp3	8 GiB	3000	125	snap-0fc9d6b...	2024/03/02 15:00 GMT+5:...	us-east-1a
<input type="checkbox"/>	-	vol-04a79c1aabc36b6cd	io2	20 GiB	3000	-	-	2024/03/02 15:02 GMT+5:...	us-east-1a

Search [Alt+S]

Successfully created volume vol-04a79c1aabc36b6cd.

Volumes (1/3) Info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status	Attached res
<input type="checkbox"/>	-	vol-022a3416ed4298ab0	gp3	8 GiB	3000	125	snap-0fc9d6b...	2024/03/02 14:59 GMT+5...	us-east-1d	In-use	No alarms	+ i-027c6919757f63044
<input type="checkbox"/>	-	vol-0d440be6af245663b	gp3	8 GiB	3000	125	snap-0fc9d6b...	2024/03/02 15:00 GMT+5...	us-east-1d	In-use	No alarms	+ i-0c0157b60fb37499c
<input checked="" type="checkbox"/>	-	vol-04a79c1aabc36b6cd	io2	20 GiB	3000	-	-	2024/03/02 15:02 GMT+5...	us-east-1d	Available	No alarms	+ -

Step VIII : Choose the Instance to which you want to attach the volume,click attach Volume.

EC2 > Volumes > vol-04a79c1aabc36b6cd > Attach volume

Attach volume Info

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID
vol-04a79c1aabc36b6cd

Availability Zone
us-east-1d

Instance Info
i-0c0157b60fb37499c

Only instances in the same Availability Zone as the selected volume are displayed.

Device name Info
/dev/sdf

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sdf(p) for data volumes.

Attached instances
i-027c6919757f63044

Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel Attach volume

Step IX : same process to attach other instance.

Step X : to verify the instance is attached or not, connect instance and run the command “lsblk”.

```
aws
Services
Search [Alt+S]
IAM
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-12-66 ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
nvme0n1     259:0    0   8G  0 disk 
├─nvme0n1p1 259:1    0   8G  0 part /
├─nvme0n1p127 259:2    0  1M  0 part 
├─nvme0n1p128 259:3    0  10M  0 part /boot/efi
└─nvme1n1   259:4    0  20G  0 disk
```

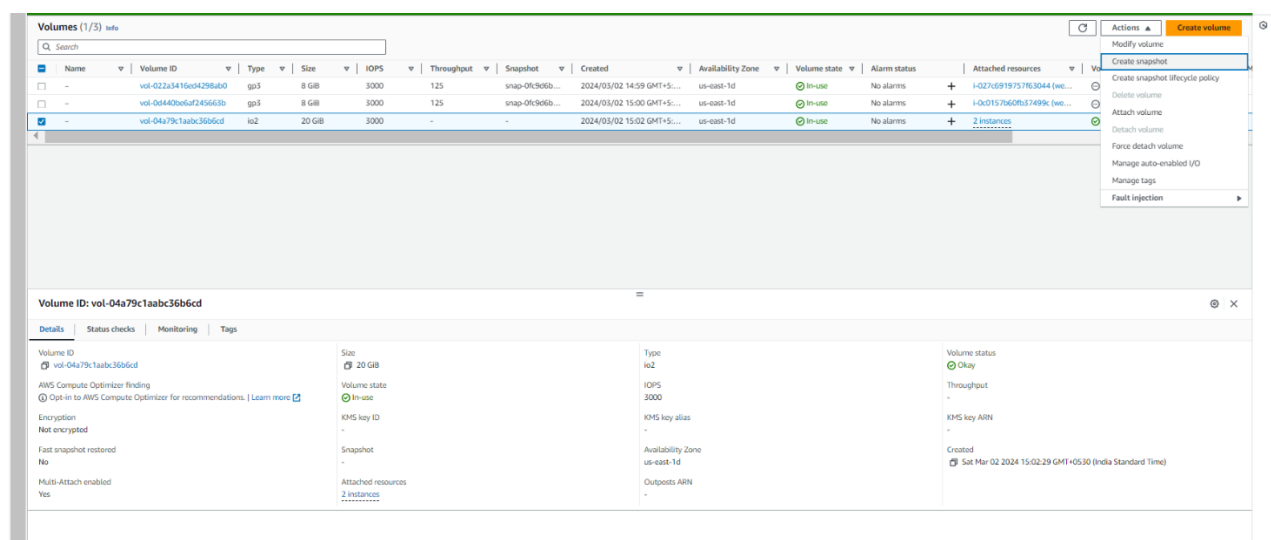
Step XI : also do this step to check other instance , volume is attached or not.

```
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-6-83 ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
nvme0n1     259:0    0   8G  0 disk 
├─nvme0n1p1 259:1    0   8G  0 part /
├─nvme0n1p127 259:2    0  1M  0 part 
├─nvme0n1p128 259:3    0  10M  0 part /boot/efi
└─nvme1n1   259:4    0  20G  0 disk
```

2) CREATE THE SNAPSHOT FROM VOLUME.

Step I : Select the Volume, and click on Actions.



Step II : Select the Create Snapshot.

Snapshots (5) [info](#)

Owned by me ▾

Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started	Progress	Encryption	KMS key ID	KMS key all...	Outposts ARN
<input type="checkbox"/> -	snap-067923205947471b	20 GiB	a	Standard	Pending	2024/03/02 15:07 GMT+5...	Unavailable (99%)	Not encrypted	-	-	-
<input type="checkbox"/> -	snap-00908b71b278b2581	8 GiB	Created by CreateImage...	Standard	Completed	2024/02/28 19:05 GMT+5...	Available (100%)	Not encrypted	-	-	-
<input type="checkbox"/> -	snap-062051942128f64c6	20 GiB	Created for policy: policy-0...	Standard	Completed	2024/03/02 02:43 GMT+5...	Available (100%)	Not encrypted	-	-	-
<input type="checkbox"/> -	snap-0ff95a52e4f484832	8 GiB	Created by CreateImage...	Standard	Completed	2024/02/29 09:18 GMT+5...	Available (100%)	Not encrypted	-	-	-
<input type="checkbox"/> -	snap-05000aa63311cf7	8 GiB	Created by CreateImage...	Standard	Completed	2024/02/28 18:53 GMT+5...	Available (100%)	Not encrypted	-	-	-

Step I : Select the Snapshot and click on Actions.

Search [filter] [filter]

Successfully deleted 2 snapshots

Snapshots 1/5 info

Owned by me [filter] Search

Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started	Progress	Encryption	KMS key ID	KMS key all...	Outposts
<input checked="" type="checkbox"/>	snap-0672293205674710	20 GiB	a	Standard	Completed	2024/05/02 15:07 GMT+5...	Available (100%)	Not encrypted	--	--	--
<input type="checkbox"/>	snap-009008e71b5278b2d81	8 GiB	Created by CreateImage...	Standard	Completed	2024/02/28 19:05 GMT+5...	Available (100%)	Not encrypted	--	--	--
<input type="checkbox"/>	snap-0620319421281946c	20 GiB	Created for policy: policy-0...	Standard	Completed	2024/03/02 02:43 GMT+5...	Available (100%)	Not encrypted	--	--	--
<input type="checkbox"/>	snap-0f9f52e264048b32	8 GiB	Created by CreateImage...	Standard	Completed	2024/02/29 09:18 GMT+5...	Available (100%)	Not encrypted	--	--	--
<input type="checkbox"/>	snap-050a00a5d3311dc7	8 GiB	Created by CreateImage...	Standard	Completed	2024/02/28 18:53 GMT+5...	Available (100%)	Not encrypted	--	--	--

Actions **Create snapshot**

- Create volume from snapshot
- Create image from snapshot
- Copy snapshot
- Delete snapshot
- Manage tags
- Snapshot settings
- Archiving

Step III : Then, click on Create Volume.

Volumes (4) Info														
<input type="text" value="Search"/>														
<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status	Attached resources	Volume	
<input type="checkbox"/>	-	vol-022a3416ed4298ab0	gp3	8 GiB	3000	125	snap-0fc9d6b...	2024/03/02 14:59 GMT+5...	us-east-1d	In-use	No alarms	+	I-027c6919757f63044 (we...)	
<input type="checkbox"/>	-	vol-0d440be6af245663b	gp3	8 GiB	3000	125	snap-0fc9d6b...	2024/03/02 15:00 GMT+5...	us-east-1d	In-use	No alarms	+	I-0c0157b60fb37499c (we...)	
<input type="checkbox"/>	-	vol-04a79c1aab36b6dcd	io2	20 GiB	3000	-	-	2024/03/02 15:02 GMT+5...	us-east-1d	In-use	No alarms	+	2 instances	
<input type="checkbox"/>	-	vol-0a2fcd17a9dfca0	io2	20 GiB	3000	-	snap-0679239...	2024/03/02 15:11 GMT+5...	us-east-1d	Available	No alarms	+	-	

4)CREATE THE LIFECYCLE MANAGER.

Step I : Click on Lifecycle Manager.

Step II : Select Custom Policy and Policy Type then Click on Next.

The screenshot shows the AWS IAM console interface. On the left, there's a navigation menu with links to EC2 Dashboard, EC2 Global View, Events, Console-to-Code, and Instances. The main content area is titled "Data Lifecycle Manager (1) Info". It features a search bar with the text "Find policy by attribute or tag" and a dropdown menu set to "All policies". Below this is a table with columns: Name, Policy ID, Description, and Policy type. The table contains one entry: a checkbox, a hyphen, the ID "policy-0f190e902695c803b", the description "aw", and the policy type "EBS snapshot policy".

Below the table, there's a "Specify settings" section. It includes a "Target resources" section with radio buttons for "Volume" (selected) and "Instance". There's a "Target resource tags" section with input fields for "name" and "value", and an "Add" button. The "Description" section has a text area with "aw" entered. The "IAM role" section has a radio button for "Default role" (selected) and a link to "View default role permissions". The "Tags - optional" section has an "Add tag" button. The "Policy status" section has radio buttons for "Enabled" (selected) and "Not enabled". At the bottom, there are "Cancel" and "Next" buttons.

Step III : Select the things as we need to create Lifecycle.

Step IV : click on Review Policy.

ⓘ You can add 3 more schedules to this policy. They must have the same retention type as Schedule 1, but they can have their own retention count or age. Snapshot archiving can be enabled for one schedule only.

Schedule details Info

Remove schedule

Add another schedule

Schedule name

Schedule 1

Frequency

Weekly

on

☐ Mon ☒ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Starting at

07:00

UTC

Retention type

Count

Keep

5

snapshots in standard tier

Advanced settings - optional

▶ **Tagging info**

Specify the tags that are to be applied to snapshots created by this schedule. These tags are not applied to cross-Region copies created by the schedule.

▶ **Snapshot archiving info**

Enable snapshot archiving to automatically move snapshots created by this schedule from the standard storage tier to the archive storage tier.

▶ **Fast snapshot restore info**

Enable fast snapshot restore to ensure that volumes created from snapshots created by this schedule instantly deliver all of their provisioned performance.

▶ **Cross-Region copy info**

Enable cross-account sharing to share the snapshots created by this schedule with other AWS accounts.

Cancel

Previous

Review policy

Step V : check policy and click on create Policy.

Review and create

ⓘ

You can add 3 more schedules to this policy. They must have the same retention type as Schedule 1, but they can have their own retention count or age. Snapshot archiving can be enabled for one schedule only.

Add another schedule

Step 1: Policy settings

Modify

Policy details

Target resource types

Volume

Target resource tags

name:aws-w

Description

qwe

Role name

AWSDataLifecycleManagerDefaultRole

Policy status

Enabled

Policy tags

-

Step 2: Schedule 1 configuration

Modify

Schedule details

Schedule name

Schedule 1

Frequency

Every **Tuesday** starting at **07:00** UTC.

Retention in standard tier

5 most recent snapshot(s)

Cancel

Previous

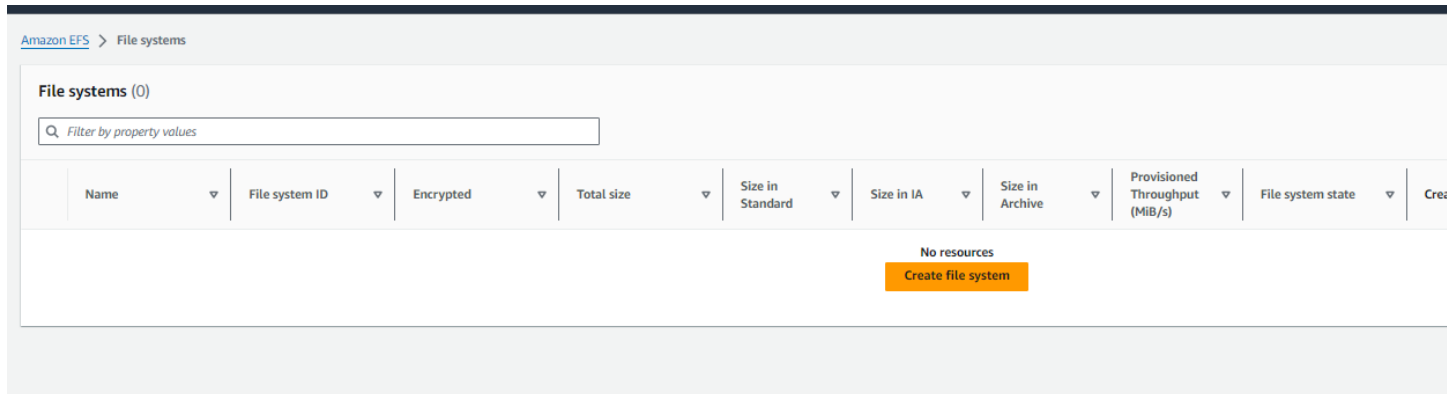
Create policy

Step VI : Policy is Generated now.

5)CREATE THE FILESYSTEM CONNECT THE INSTANCE AND MOUNT IT .

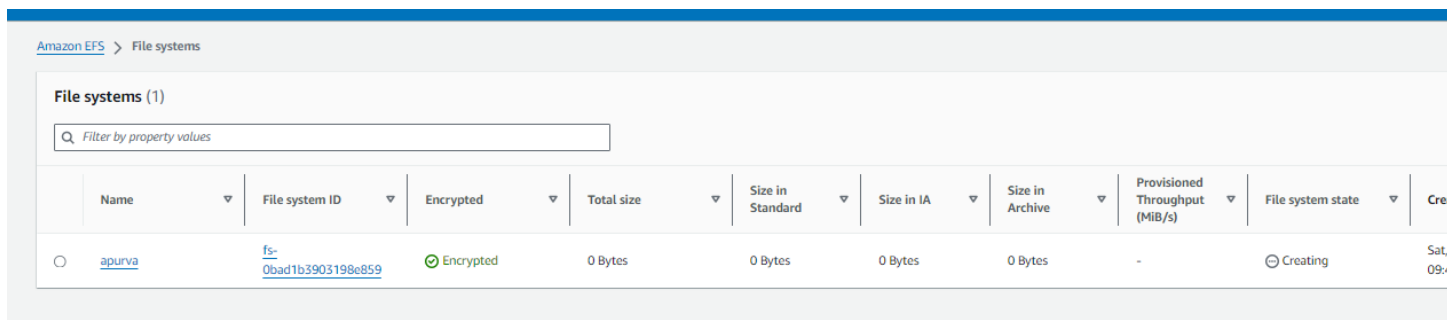
Step I : Search the EFS in the search services.

Step II : click on create file system.



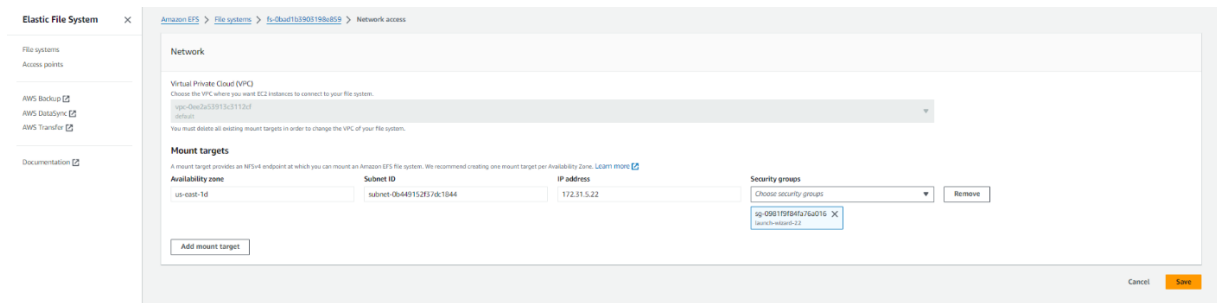
Step III : Enter the name for filesystem and click create.

Step IV : Click Create.

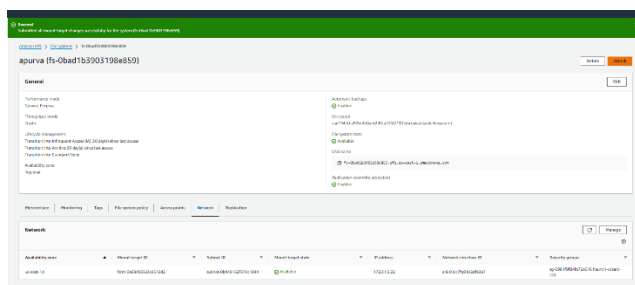


Step V : Click on created file system id ,then click on network ,then click manage.

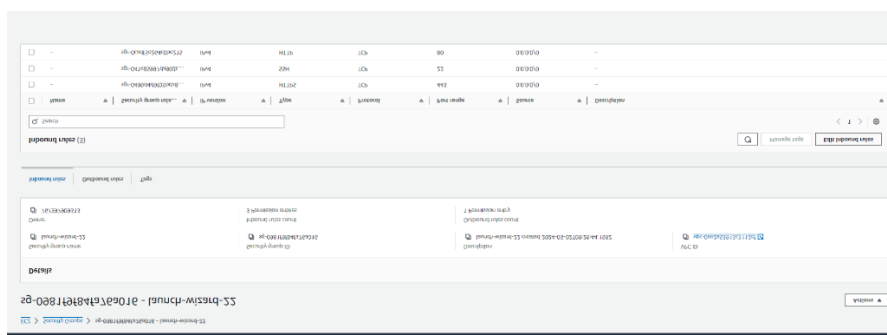
Step VI : In mount target, Select the availability zone and security group and click on save.



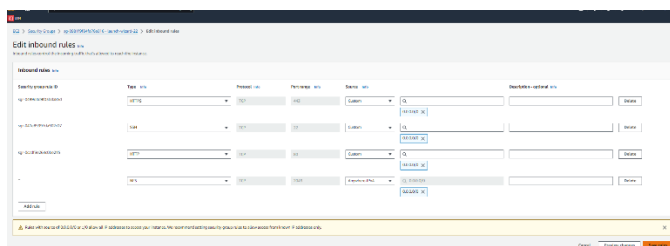
Step VII : Click on Attach. Select Mount via IP and copy the IP and close it.



Step VIII : Go to instances, select the Instance which we need and then go to its security group and edit the Inbound rules.



Step IX : Add NFS to the Security group and save rule.



Step X : then connect instance and to check the Storage of devices click on lsblk .

Step XI : then, type sudu su and change the user.

Step XII : to mount permanently edit the file /etc/fstab using vim editor.

```
aws
Services Search [Alt+S]
IAM
UID=614e009-191b-464c-8cc3-22de217d1136 / wfs defaults,noatime 1 1
UID=EATD-EATD /boot/efi vfat defaults,noatime,uid=0,gid=0,umask=0077,shortname=winnt,x-systemd.automount 0 2
172.31.5.22:/mnt mfs4 defaults 0 0
```

Step XIII : then for refresh give command “mount -a”

Step XIV : to check file system is mounted or not give command “df -hT”.

```
aws
Services Search [Alt+S]
IAM
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Sat Mar 2 10:06:14 2024 from 18.206.107.28
[ec2-user@ip-172-31-6-83 ~]$ lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
nvme0n1 255:0 0 8G 0 disk
--nameOnUp1 255:1 0 8G 0 part /
--nameOnUp127 255:2 0 1M 0 part
--nameOnUp128 255:3 0 10M 0 part /boot/efi
nvme1n1 255:4 0 20G 0 disk
[ec2-user@ip-172-31-6-83 ~]$ vim /etc/fstab
[ec2-user@ip-172-31-6-83 ~]$ sudo su
[ec2-user@ip-172-31-6-83 ec2-user]$ vim /etc/fstab
[ec2-user@ip-172-31-6-83 ec2-user]$ mount -a
[ec2-user@ip-172-31-6-83 ec2-user]$ df -hT
Filesystem Type Size Used Avail Use% Mounted on
devtmpfs devtmpfs 4.0M 0 4.0M 0% /dev
tmpfs tmpfs 483M 0 483M 0% /dev/shm
tmpfs tmpfs 464K 12K 452K 3% /run
/dev/nvme0n1p1 xfs 8.0G 1.6G 6.5G 19% /
tmpfs tmpfs 483M 0 483M 0% /tmp
/dev/nvme0n1p128 vfat 10M 1.3M 8.7M 13% /boot/efi
tmpfs tmpfs 0 0 0 0% /run/user/1000
172.31.5.22:/ mfs4 8.0G 0 8.0G 0% /mnt
[ec2-user@ip-172-31-6-83 ec2-user]$
```